E1050TW

Digital Camera

10.1 megapixel E105

Preparations

Basic operation

Camera function controls

Playback

Using the Menus

Camera connectivity

Appendix

En

Warning

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

For customers in the U.S.A.

Tested To Comply
With FCC Standards
FOR HOME OR OFFICE USE

FCC Statement

This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to Part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For customers in Europe

"CE" mark indicates that this product complies with the European requirements for safety, health, environment and customer protection. "CE" mark cameras are intended for sales in Europe.

This symbol [crossed-out wheeled bin WEEE Annex IV] indicates separate collection of waste electrical and electronic equipment in the EU countries. Please do not throw the equipment into the domestic refuse. Please use the return and collection systems available in your country for the disposal of this product.

Declaration of Conformity

Model Name : E1050TW
Trade Name : GE
Responsible Party : General Imaging Co.
Address : 2158 W. 190th Street,
Torrance, CA 90504, USA
Telephone Number : 1-800-730-6597

Conforms to the following Standards:

EMC: EN 55022:1998/A1:2000/A2:2003 Class B
EN 55024:1998/A1:2001/A2:2003
EN 61000-3-2:2000/A1:2001
EN 61000-3-3:1995/A1:2001

following the provision of the EMC Directive (89/336/EEC,2004/108/EEC)

Safety precautions

Camera notes:

! Do not store or use the camera in the following types of locations:

- In the rain or very humid and dusty places.
- In a place where the camera can be exposed directly to the sunlight or subject to high temperature, e.g., inside a closed car in summer.
- In a place where the camera is subject to a high magnetic field, e.g., near motors, transformers or magnets.

! Do not place the camera on a wet surface or places where dripping water or sand may come in contact with the camera, which may cause irrepairable faults.

! If the camera will not be used for a long period of time, we suggest you remove the battery and the memory card.

! If the camera is moved suddenly from a cold location to a warm place, moisture may condense inside the camera. We suggest you wait for a while before turning on the camera.

! No compensation for loss of recordings. Loss of recordings cannot be compensated for if a malfunction of your camera or recording media, etc, makes the playback of recordings not possible.

Battery notes:

! Incorrect use of the batteries may cause them to leak, become hot, ignite or burst. Always observe the precautions given below.

- Do not expose the batteries to water, and take particular care to keep the terminals dry.
- Do not heat the batteries or throw them into a fire.
- Do not attempt to deform, disassemble or modify the batteries.
- Use only the GE charger included in the package to charge the lithium battery.

! Keep the batteries out of reach of babies and small children.

! In cold locations, battery performance deteriorates and the time for which they can be used shortens markedly.

Memory card notes:

! When using a new memory card, or a memory card has been initialized by a PC, be sure to format the card with your digital camera before using it.

! To edit image data, copy the image data to the PC's hard disk and then format the memory card if upgrading the firmware.

! Do not change or delete the directory names, or file names in the memory card from your PC, as this may make it impossible to use the card in your camera.

Before you start

Preface

Thank you for purchasing this GE digital camera. Please read this manual carefully and keep it in a safe place for future reference.

Copyright

© Copyright 2008 General Imaging Company. All rights reserved.

No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language or computer language, in any form, by any means, without the prior written permission of General Imaging Company.

Trademarks

All trademarks mentioned in this manual are used for identification purposes only and are properties of their respective owners.

Safety information

Please read the following important information carefully before using the product.

- Do not take apart or attempt to service the camera yourself.
- Do not drop or knock the camera. Improper handling may damage the product.
- Turn off the camera before inserting or removing the battery and memory card.
- Use only the type of battery and charger that came with your camera. Using other types of batteries or chargers may damage the camera and invalidate the warranty.
- When using Li-ion batteries in this product, ensure that they are inserted correctly. Inserting the batteries upside down can cause damage to the camera and possibly start a fire.
- Do not touch the camera lens.
- Do not expose the camera to moisture, or extreme temperatures. Extreme environments may shorten the life of your camera or damage the batteries.

- Do not use or store the camera in dusty, dirty, or sandy areas, as its components may be damaged.
- Do not expose the lens to direct sunlight for extended periods.
- Download all pictures and remove the batteries from the camera if you are going to store the camera for long periods.
- Do not use abrasive cleansers, alcohol-based, or solvent-based cleaners to clean the camera. Wipe the camera with a slightly damp soft cloth.

About this manual

This manual provides you with instructions on how to use your GE digital camera. Every effort has been made to ensure that the contents of this manual are accurate, but General Imaging Company reserves the right to make changes without notice.

Symbols used in this manual

Throughout this manual, the following symbols are used to help you locate information quickly and easily.

📝	Indicates the useful information to know.
⚠	Indicates the precautions to be taken while operating the camera.

About the LCD screen

The LCD touch-screen (touch panel) can be used to operate the camera.

When you turn the camera on, various icons are shown on the LCD screen to indicate the current camera settings and status. To learn more about the displayed icons, see **LCD Screen Display** on page 18.

LCD Screen notes:

Extremely high-precision technology has been used to manufacture the LCD screen so that most of the pixels are operational for use. However, there may be some minute points (black, white, red, blue or green) that constantly appear on the LCD screen. These points are normal in the manufacturing process and the recording is not affected in any way.

If the LCD monitor is damaged, take particular care with the liquid crystal in the monitor. If any of the following situations arise, take the urgent action indicated.

- If liquid crystal comes in contact with your skin, wipe the area with a cloth and then wash thoroughly with soap and running water.
- If liquid crystal gets into your eye, flush the affected eye with clean water for at least 15 minutes and then seek medical assistance.
- If liquid crystal is swallowed, flush your mouth thoroughly with water. Drink large quantities of water and induce vomiting. Seek medical assistance.

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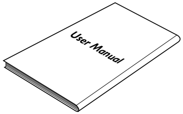
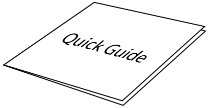
Getting ready

Unpacking

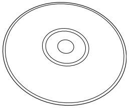
Your package should contain the camera model you purchased along with the following items. If anything is missing or appears to be damaged, please contact your vendor.


User Manual

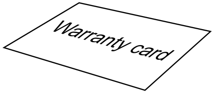
User Manual


Quick Guide

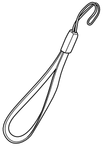
Quick Start Guide



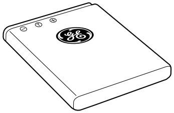
CD-ROM


Warranty card

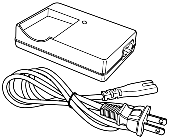
Warranty Card



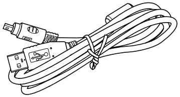
Wrist Strap



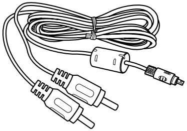
Rechargeable
Lithium-ion Battery



Battery Charger



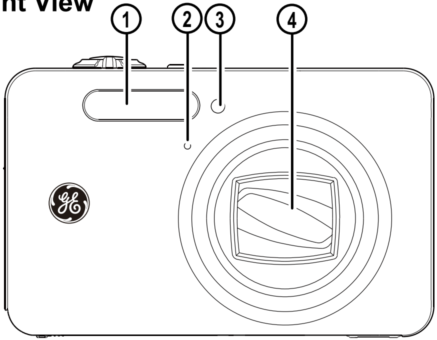
USB Cable



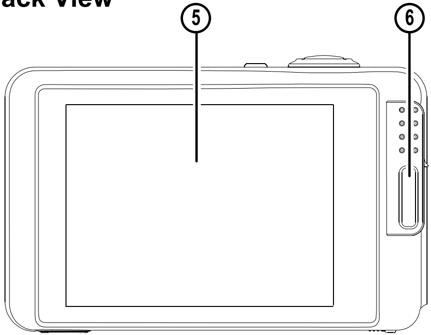
AV Cable

Identifying the components

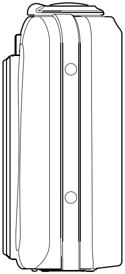
Front View



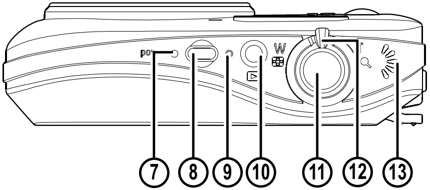
Back View



Right View



Top View


pow
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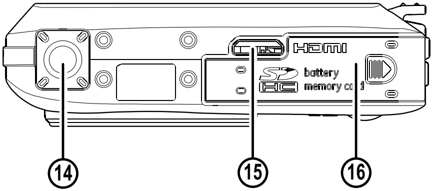
12
13

Bottom View


HDMI
SD HC
battery
memory card
14
15
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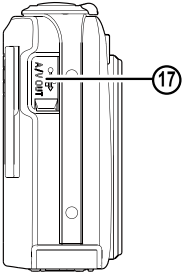
Left View



1	Flash	10	Playback button
2	Mic	11	Shutter button
3	AF assist beam/Timer indicator	12	Zoom scroll wheel
4	Lens	13	Speaker
5	LCD screen	14	Tripod mount point
6	Wrist strap mount	15	HDMI port
7	Power indicator	16	Memory card/Battery compartment
8	Power button	17	USB/ AV port
9	Status LED		

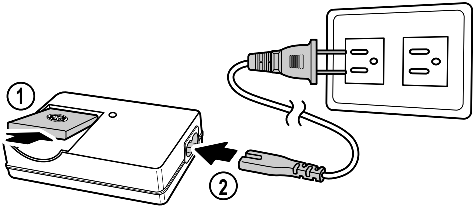
Charging the battery

1. Place the battery into the charger as shown.
2. Plug one end of the connecting cable into the charger base.
3. Plug the other end of the connecting cable into a wall outlet.

Leave the battery to charge until the charger light goes green.

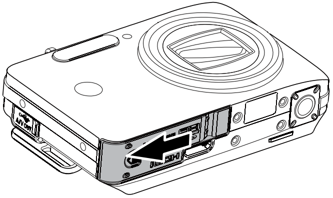
(To maximize battery life, the first charge should be at least 4 hours)

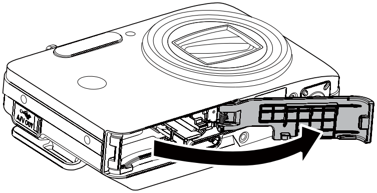
The charger is for indoor use only.



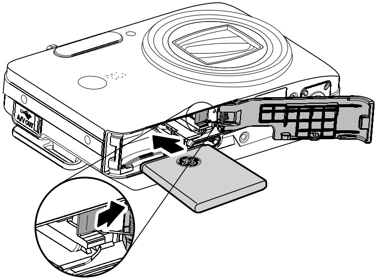
Inserting the battery

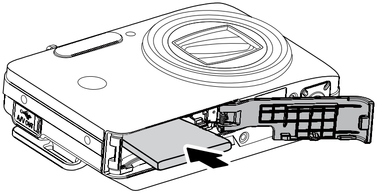
1. Open the battery compartment.



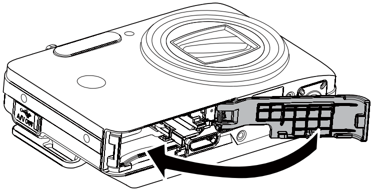


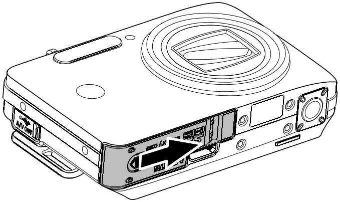
2. Insert the battery while observing the correct polarity. Use the side of battery to press down the stopper as shown, allowing the battery to be inserted properly.





3. Gently close the battery compartment. Slide the door to the right in lock position.

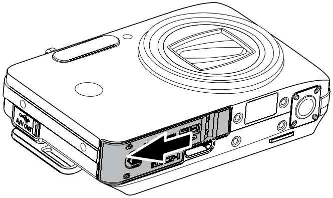


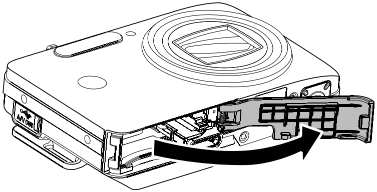


Battery capacity decreases with usage.

Inserting an optional SD/SDHC card

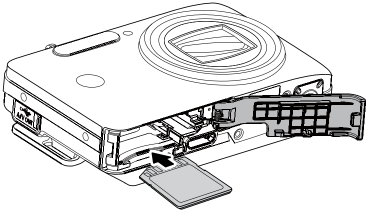
1. Open the battery compartment.

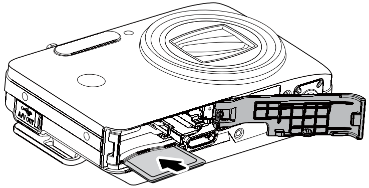




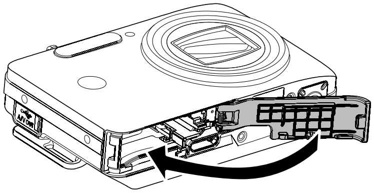
Optional SD/SDHC cards are not included. The use of 64MB to 4GB memory cards from recognized manufacturers such as SanDisk, Panasonic and Toshiba is recommended for reliable data storage.

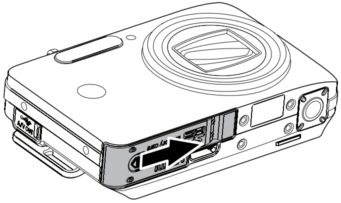
2. Insert an optional SD/SDHC card into the memory card slot as shown.





3. Close the battery compartment.

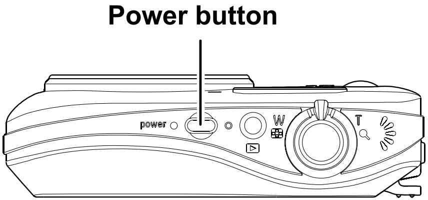




To remove the SD/SDHC card, open the battery compartment and gently push the card to release it. Pull the card carefully.

Turning on and off

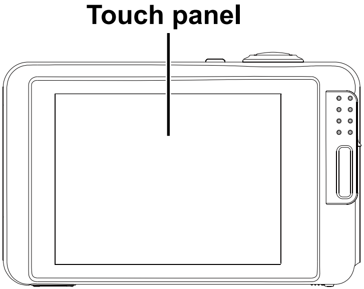
Press the Power button to turn on the camera. To turn off the camera, press the Power button again.

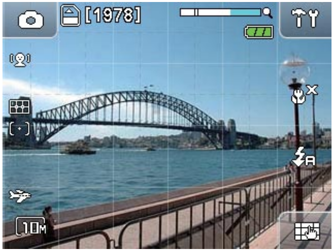


When the camera is turned on for the first time, it is automatically set to the Auto shooting mode. You can change to other modes in the camera setup. Please see **Camera Function Controls** on page 29 for more details. The camera will power on in the last shooting mode that it was set to when it was powered off.

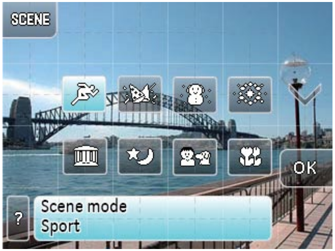
Control touch panel

The LCD screen is also a touch panel and has the camera control buttons integrated into it.





About the touch panel buttons:



Scene mode
Sport

- Please use your finger to gently touch the camera controls on the touch panel.
- Please do not use any sharp objects to operate the touch panel.
- Please do not use excessive force on the LCD touch panel.

Time and language setup

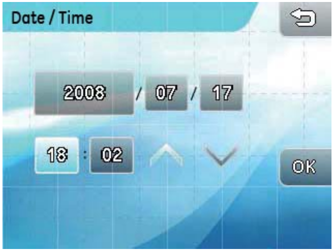
Before you start using the camera, the language and time must be configured from the Setup menu.

To access the Setup menu:

1. Press the power button to turn on the camera.
2. Touch the icon to enter the Setup menus, then touch **Camera setting** button to enter the camera setting menu.
3. Press the **up/down arrows** to scroll through each menu page.

Time setup:

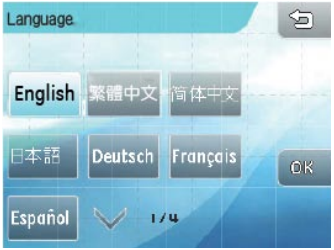
1. In the **Camera Setting** menu, select **Date/Time**.
2. Press the **up/down arrows** to set the time and date.


Date / Time
2008 / 07 / 17
18 : 02
OK

3. Once the date and time are set, press the OK button to confirm and save.

Language setup:

1. Select **Language** from the **camera setup** menu page.
2. Press **up/down arrow key** in each page to find your language.

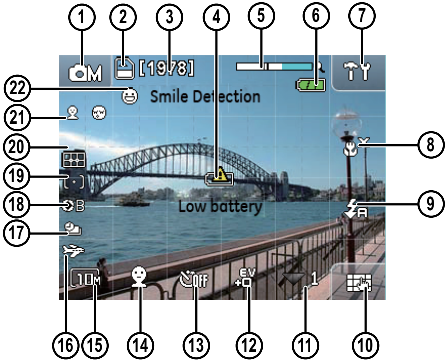

Language
English
繁體中文
简体中文
日本語
Deutsch
Français
OK
Español
1/4

3. Press the button with the language you want to set for the camera, then press the OK button to confirm and save.

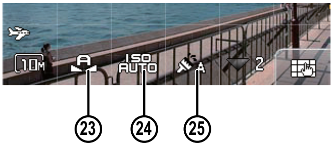
LCD Screen display

Still Shooting mode display

Mode icon:



①
②
③
④
⑤
⑥
⑦
OM
[1978]
Smile Detection
Low battery
⑧
⑨
㉒
㉑
⑳
⑲
⑱
B
⑰
10M
OFF
EV
+0
1
⑯
⑮
⑭
⑬
⑫
⑪
⑩



10M
A
ISO
AUTO
A
2
㉓
㉔
㉕

1 Shooting mode icon

- Auto mode
- OM Manual mode
- Panorama stitching mode
- SCENE Scene mode
- Stabilization mode

2 Memory card / internal memory display

3 Number of remaining shots

4 Low battery icon

5 Zoom indicator

6 Battery level indicator

7 Setup menu icon

8 Macro mode display

- Macro mode off
- Macro mode on

9 Flash mode display

- A Auto flash
- Red-eye Reduction flash

Slow Synchro flash
Red-Eye Reduction + Slow Synchro flash
Flash off
Forced flash

10 Screen display DISP icon (please refer to **Switch Between Screens** on page 22)

11 Function Page icon

12 EV indicator

13 Self-Portrait and Continuous Shot display

14 Face Detection and Smile Detection display.

15 Picture size and quality display

16 Travel time icon

17 Continuous Shot display

18 B Shutter (slow shutter) icon

19 Expo Metering mode

Spot AE
Centered-Weight
AI AE

20 Focus mode

Single point
Multi point

21 Face Detection / Blink Detection icon

22 Smile Detection icon

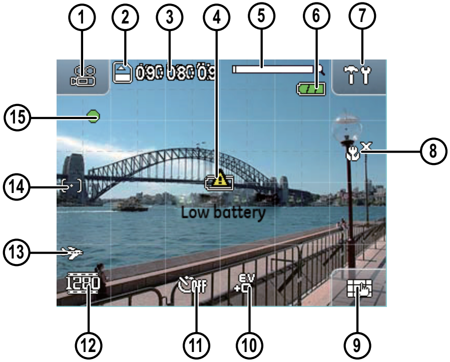
23 WB (white balance) display (only available under **Manual mode)**

24 ISO (only available under **Manual mode**)

25 Color effect display (only available under **Manual mode**)

Movie mode on-screen icons:

Mode icon:

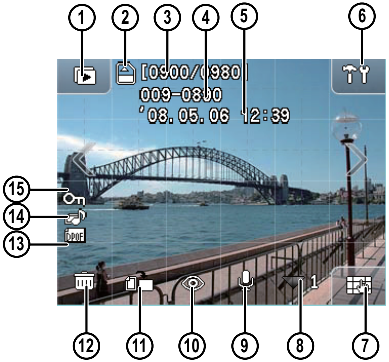


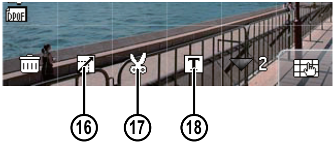
1 Shooting mode icon
2 Memory card / internal memory display
3 Remaining recording time
4 Low battery icon
5 Zoom indicator
6 Battery level indicator
7 Setup menu icon
8 Macro mode indicator
   - Macro mode off
   - Macro mode on
9 Screen display DISP icon (please refer to **Screen Display** on page 22)
10 EV indicator
11 Self-Portrait and Continuous Shot display
12 Movie size and quality display
13 Travel time icon
14 Expo Metering mode
   - [·] Spot AE
   - Centered-Weight
   - Ai AE
15 Recording status icon
   - ● Recording standby
   - ●REC Recording

For best results the use of an SD memory card is recommended when shooting a movie. The camera's built-in memory is limited and may cause stuttering and noise if used for movie recording.

While recording, the optical zoom is fixed but the digital zoom can go up to the maximum 4.5x.

Playback mode on-screen icons:


1
2
3
4
5
6
[0900/0980]
009-0800
'08. 05. 06 12:39
15
14
13
DPOF
1
12
11
10
9
8
7


DPOF
2
16
17
18

1 Slideshow mode

2 Memory card / built-in memory display

3 Current picture index / total number

4 File name

5 Date and time captured

6 Setup menu

7 Screen display DISP (Please refer to **Screen Display** section on page 22)

8 Next page icon

9 Audio playback display

10 Red-eye Reduction

11 Rotate picture

12 Delete image

13 DPOF printing

14 Picture audio status

15 File protection

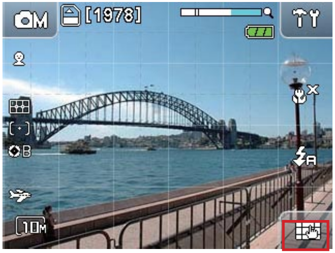
16 Change picture size

17 Crop picture

18 Picture text display

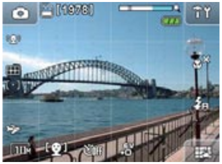
Screen Display

Touch the ▦ icon at the bottom right corner to change the display contents on the screen:

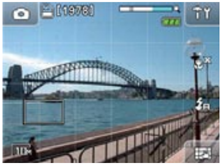


1. Shooting mode

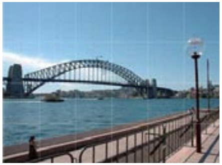
When in shooting mode, touch the ▦ to change between the four on-screen displays:



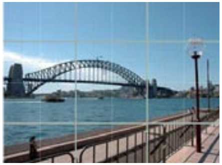
Open Advanced Functions



Show Histogram



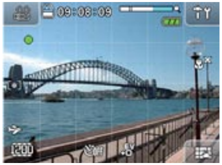
Hide Grid



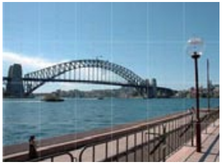
Show Grid

2. Recording mode

When in shooting mode, touch the ▦ to change between the two on-screen displays:



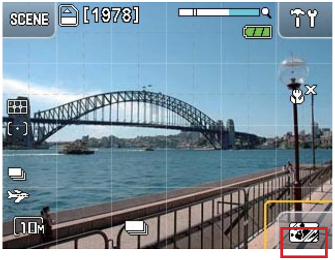
Open Advanced Functions



Hide Icon

3. Scene mode SCENE

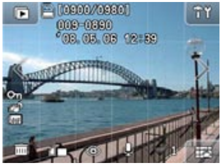
When in Scene mode, the icon at the bottom right is displayed as the scene selection icon:


SCENE
[1978]
10M

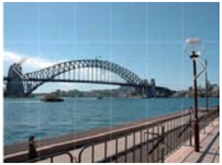
For relevant settings about scene selection, refer to **Scene Mode** on page 39.

4. Playback mode

When in playback mode, touch the to change between the two on-screen displays:


[0900/0980]
009-0890
08.05.06 12:39

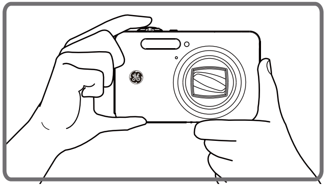
Open Advanced Functions



Hide Icon

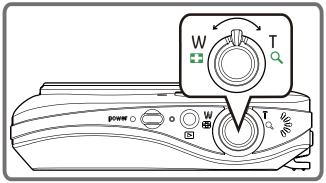
How to take pictures

1.



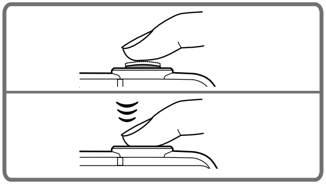
Hold the camera firmly.

2.



Use the Zoom Wheel to zoom in or out on the object.

3.

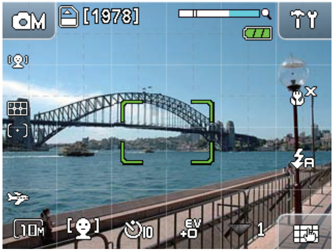


Press the shutter button halfway to focus on the center of the viewing object, then completely depress the shutter button to capture the image.

4. The captured image is shown on the LCD screen.

Focus controls

When you press the shutter button halfway, the camera will automatically focus on the viewing object (Auto Focus). Please note that the shutter button is depressed halfway only.



After the camera is focused, the green focus frame at the center of the screen will be shown.

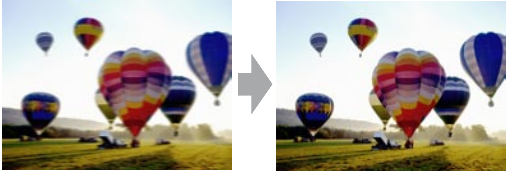
If **Auto Focus** fails, a red focus frame at the center of the screen will be shown.

If **Auto Focus** was achieved but the image is still blurry, "camera shake" may be the cause.

Tips to preventing blurry images

Inadvertent moving of the camera during image capturing is called “camera shake”; on the other hand, movements by the main object during the image capture is called “object blur”.

1. Camera shake

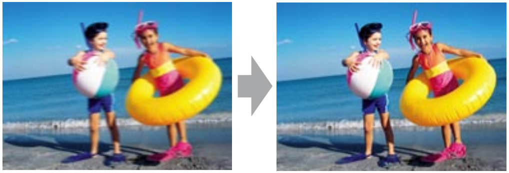


Cause of camera shake: Shaking of the hand or arm while pressing the shutter button will result in a blurry image.

How to reduce blur:

- Use a tripod or place the camera on a flat and stable surface.

2. Object blur



Cause of object blur: Even if the camera is stable during image capture, movements by the main object during the exposure duration will result in blurriness of the object.

How to reduce blur:

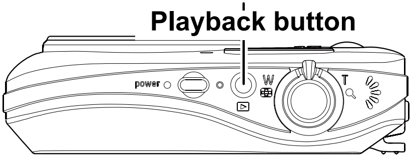
- Switch to Sport mode when taking a picture of an object in motion.
- Use higher ISO with faster shutter speeds (only available for Manual mode), and press the shutter button before the object starts to move.

How to playback images

The camera provides a hotkey to quickly playback the images you've captured.

To view captured images and movies on the LCD:

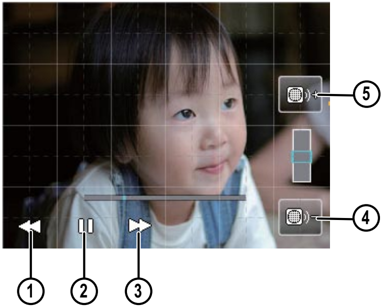
1. Press the **Playback button** to switch the camera to **Playback mode**. The screen will then show the last taken picture or movie segment.

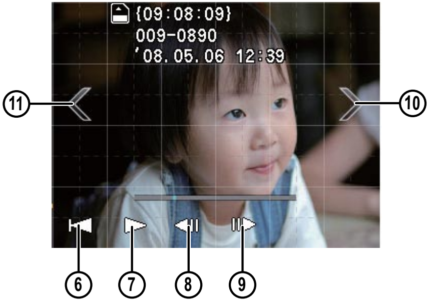


2. Touch the < > icon on the screen to view picture(s) or movie(s) stored on the memory card or built-in memory area.

3. When a movie has been taken, the ▷ icon will appear on the bottom center of the touch screen. Press the ▷ play button to start playback of the movie.

4. Function buttons during movie playback:





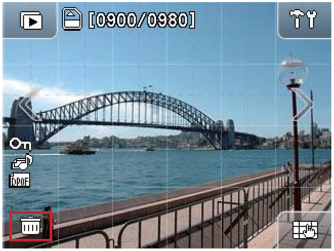
1	Previous frame	7	Play
2	Pause	8	Rewind
3	Next frame	9	Fast forward
4	Decrease volume	10	Next
5	Increase volume	11	Previous
6	First frame		

5. After 2 seconds of movie playback, all icons and buttons shown on the screen will automatically be hidden. Touch anywhere on the screen to show the icons and buttons again.

6. During movie playback, touch the 🔊+ 🔊− button to adjust the audio volume.

How to delete images

In **Playback mode**, touch any place on the screen to display the main options screen and click the Delete icon 🗑 to display the **Delete** menu.



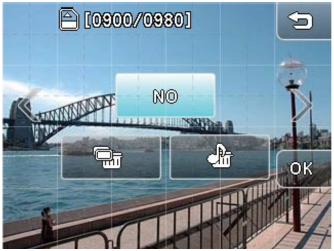
Delete pictures or movies:

1. Press the Left or Right arrow to select the picture or movie you want to delete.
2. Select one of the delete options and then press OK.

NO Cancel

Delete picture and sound files

Delete sound/recording files only



3. Press the Cancel button ↩ in the top right corner to return to the playback mode.

The 🔑 icon during Playback indicates the picture is currently protected and the buttons in the delete option menu cannot be selected.

For **Protection Setting** on files, please refer to the instructions at page 57.

Camera function controls

Shooting in Auto mode

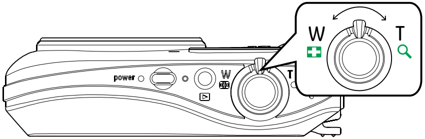
Auto mode is the easiest mode to use to take pictures. While operating in this mode, the camera automatically optimizes your picture for best results.

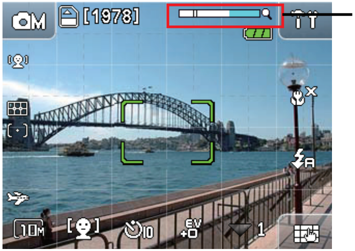
To take pictures in Auto mode:

1. Press **power** button to turn on the camera.
2. Touch the **Auto mode** (📷) button at the top left corner of the screen to enter the mode selection screen (the default mode at camera bootup is **Auto mode**).
3. Compose your picture on the LCD screen and press the shutter button halfway to focus on the subject.
4. When the subject is in focus, the green colored focus frame appears on the center of the LCD screen.
5. Press **shutter** button fully to capture the image.

Using the Zoom function

Your camera is equipped with two types of zoom: optical zoom and digital zoom. Use the **zoom scroll wheel** at the top of the camera to zoom in or out on your subject while taking pictures.





Zoom indication scale (please refer to **digital zoom** on page 54)

When the optical zoom factor reaches its maximum value, it stops momentarily. Press and hold the zoom scroll wheel to the furthest position 🔍 and the zoom will switch over to digital zoom automatically.

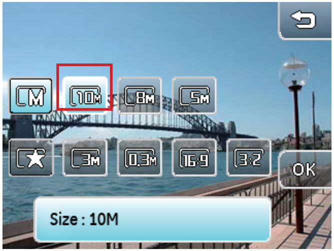
Picture size and quality 10M

Picture size setup

The size setting refers to the image resolution in pixels. A higher image resolution allows you to print that image in larger sizes without degrading the image.

To change picture size:

1. Touch the 10M button at the lower left corner of the screen to enter the Setup menu.
2. Select the picture size.



Size : 10M

3. Touch the OK button to confirm.
4. Number of remaining shots will be shown on screen.

When in picture quality setup menu, touch the CM to get back to picture size setup menu.

The larger the number of recorded pixels the better the image quality. The smaller the number of recorded pixels the more pictures you can store on a memory card.

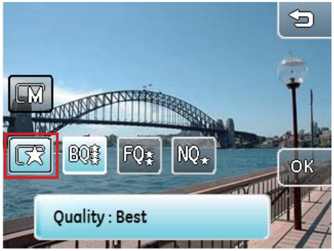
Picture quality setup

Picture quality setup can adjust the compression ratio of images saved. Higher picture quality will produce better results but will also use more storage space.

To set up picture quality:

1. Touch the 10M button at the lower left corner of the screen to enter the Setup menu.

2. Touch the ☆ button to select the Picture Quality option.



Quality : Best

3. Select a setting from the 3 options:

- BQ Picture quality: Best
- FQ Picture quality: Fine
- NQ Picture quality: Normal

4. Touch the OK button to confirm.

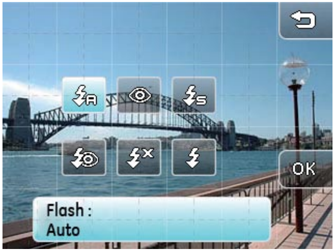
5. Number of remaining shots will be shown on the screen.

Flash mode ⚡

Touch the ⚡A button on the screen to enter the Setup menu and switch between 6 flash modes:

- ⚡A **Auto flash**

  The camera will automatically control the flash based on lighting conditions.



Flash : Auto

- 👁 **Red-eye reduction**

  The camera will pre-flash to reduce Red-eye.

- ⚡ **Forced flash**

  The camera will enable flash under all conditions.

- ⚡ **Red-eye Reduction + Slow Synchro flash**

  The camera will use the Slow Synchro flash and Red-eye reduction function.

- ⚡✕ **Forced flash off**

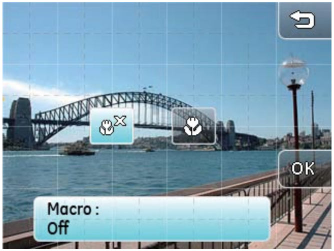
  The camera will disable the flash under all conditions.

- ⚡S **Slow Synchro flash**

  The camera will use background expo metering as basis for accurate foreground and background exposure levels.

Macro mode 🌷

1. In **Macro mode**, you can capture object details at a close distance. Touch the 🌷✕ icon to enter the Macro mode setup menu:



Macro :
Off

2. Touch the 🌷 button and OK button on screen to switch to Macro mode.

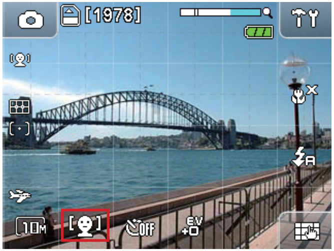
- 🌷✕ Macro mode off.
- 🌷 Macro mode on

  Use this option to focus on objects within 5cm of the camera lens.

Face detection

Face Detection and Auto Focus can be used in shooting mode to automatically focus on a subject's face and optimize exposure. When Smile Detection is enabled, the camera will automatically take the picture when the subject smiles.

1. In Shooting mode, Touch the button at the bottom right of the screen until the EV face detection icon appears.



2. Press to select from three options:

- Face Detection: Off
- Face Detection: On
- Face Detection: Smile Detection.

3. Touch OK to confirm.

4. When **Face Detection** is enabled, please hold the camera steady and point at the subject's face for detection. After the camera has detected the subject's face, a box will appear around the face on the screen. Press the **shutter** button halfway and completely depress after auto focusing to take the picture.

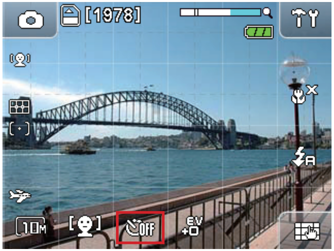
5. When **Smile Detection** is enabled, depress the shutter button halfway to auto focus. Completely depress the shutter. When a smile has been detected, the shutter will automically release until the memory card is filled or any key is pressed.

For best result, the face of the subject should fill up a larger portion of the LCD screen and be facing the camera as much as possible.

Self-portrait and Continuous shot

To use self portrait timer:

1. In Shooting mode, Touch the button at the bottom right of the screen until the self-portrait button appears.



2. Press the button to select from three options:

- Self-portrait off
- 2 second timer
  A single picture will be shot 2 seconds after the shutter is pressed.
- 10 second timer
  A single picture will be shot 10 seconds after the shutter is pressed.

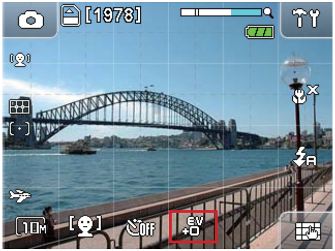
3. After selecting the **Continuous Shot mode**, the shutter button must be held down to use the function.The **Continuous Shooting mode** has three options:

- Unlimited shot
  Press and hold the shutter button for continuous shots until the shutter button is released or the memory is full.
- 3 Continuous shots
  Take up to 3 continuous shots
- Last 3 continuous shots
  Press and hold the shutter button for continuous shots until the shutter button is released, but only the last 3 shots will be saved before the shutter button is released.

EV exposure compensation EV

Exposure compensation can adjust the exposure value for best picture results. To change the exposure value:

1. In Shooting mode, Touch the ⊞ button at the bottom right of the screen until the EV icon appears.



2. Press the EV icon to enter the exposure compensation setup menu.
3. Touch the + − button to adjust the picture exposure value range from EV-2.0 to EV+2.0. (each step at 0.3EV)

The text onscreen shows the current value when touching the minus button − to lower the exposure value. Press and hold the button for 2 seconds to automatically lower the value until the meter reaches the minimum.

The text onscreen shows the current value when touching the plus button + to raise the exposure value. Press and hold the button for 2 seconds to automatically raise the value until the meter reaches the maximum.

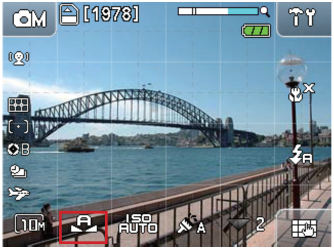
WB (White Balance)

The white balance allows the user to adjust the color temperature under different light sources to ensure accurate color reproduction.

(The WB setting is only available when thecamera is in the M **Manual** mode).

To set the white balance:

1. In manual shooting mode, touch the button at the bottom right of the screen and then page down. The white balance icon will appear on this page.



2. Press the icon to select from 7 modes:
   - Auto
   - Daylight
   - Cloudy
   - Cold cathode light
   - Fluorescent light
   - Light bulb
   - Custom

3. When using the custom white balance, select the button to enter the setup page. Completely depress the shutter button to automatically detect the white balance level and the color of the screen will be matched to the white balance level.

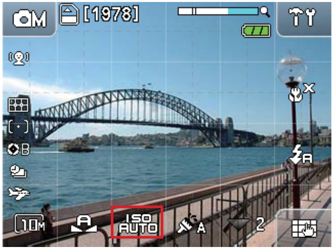
4. Press the OK button to confirm the white balance setup.

ISO ISO AUTO

The ISO function allows you to set the camera sensor sensitivity to light. To improve the performance in darker environments, a higher ISO value is required. On the other hand, a lower ISO value is needed when in bright conditions. (The ISO setting is only available when the camera is in the 📷M **Manual** mode).

To set the ISO value:

1. In manual shooting mode, touch the ⊞ button at the bottom right of the screen and then page down. The ISO ISO AUTO button will appear on this page.



2. Press the ISO AUTO icon to enter the ISO setup menu.
3. Select an ISO level on the screen, **Auto**, **80**, **100**, **200**, **400**, **800**, and **1600**.
4. Touch the OK button to confirm the ISO setting.

Pictures taken with higher ISO levels will contain more noise than lower ISO levels.

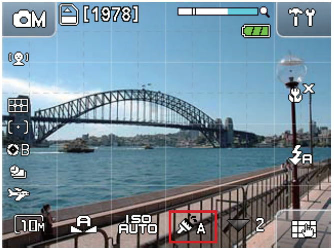
Color effect A

The color effect will let you add art effects directly to your pictures. You can try different color combinations to change the mood of the picture.

(The color values can be changed only under M **manual** mode).

To set up the color effect:

1. In manual shooting mode, touch the button at the bottom right of the screen and then page down. The color effect icon A will appear on this page.



2. Press the A icon to enter the color effect setup menu with a total of 4 selectable modes:
   - A Auto.
   - BW Black and white
   - SE Sepia
   - VI Vivid

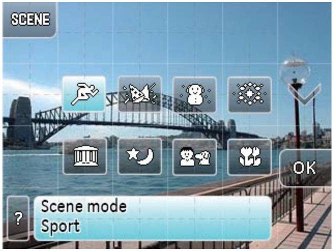
3. Touch the OK button to confirm the color effect setup.

The screen will reflect the selected color effect. For example, the Sepia color effect is reflected below:

Scene mode SCENE

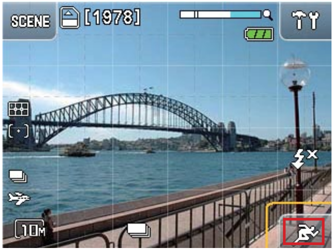
In **Scene** mode, you can select from a total of 13 scene types to match your needs. Just select the right scene for the occasion and the camera will automatically adjust to the optimal settings.

1. Touch the mode button in the upper left corner of the screen. Touch SCENE button and then press OK to enter the **Scene mode**.
2. The scene mode menu will appear. Choose the appropriate scene mode for your picture and then press OK .



Scene mode
Sport

3. Press the SCENE mode button at the top left to return to the mode selection screen.



After selecting a mode in the scene mode menu, touch the ? button to enter the scene description screen.

Sport

For shooting fast-moving objects. Bring action pictures to life.

Indoor

For indoors shots. Clearly show background and atmosphere.

Snow

Suitable for snowy landscape. Camera automatically adjusts and corrects exposure value (EV).

Fireworks

For shooting at night and fireworks. Shutterspeed is slower than normal. (Use of tripod is recommended).

Museum

For shooting in museums or places where flash is not allowed.

Night landscape

For shooting night scenes. (Use of tripod is recommended)

Children and animals

For taking pictures of children or animals. The flash will be turned off to not distract the subject.

Trees and leaves

For taking pictures of flowers and plants for more vivid greens.

Sunset

For shooting sunsets. Vivid reproduction of red and yellow.

Glass layer

For taking pictures of subjects behind a layer of glass or window.

Landscape

For shooting landscapes. Vivid reproduction of green and blue.

Night portrait

For shooting portraits with night scenes as the background.

Portrait

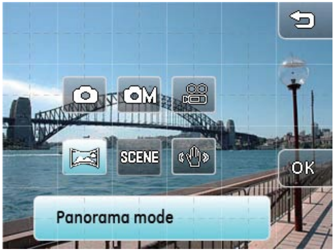
For taking pictures of people under normal conditions.

Panorama mode

Panorama mode allows you to create a panoramic picture. The camera will automatically compose a panoramic picture using the individual shots that you take.

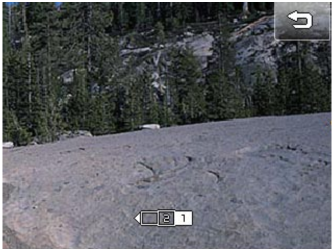
To use Panorama mode:

1. Touch the mode button in the upper left corder, then press **Panorama mode** and OK.



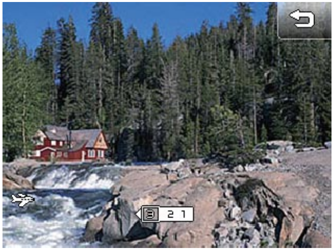
2. Select the order of the shots (default is from right to left) or it will automatically go to the shooting mode after 3 seconds without selection input.

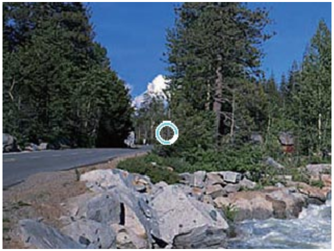
3. Compose your first view on the LCD screen and press the shutter button.

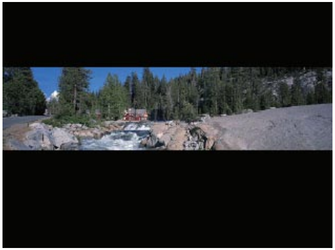


4. To capture the second shot, move the camera horizontally until the edges of pictures overlap. Press the shutter button to capture.

5. Repeat Step 4 to capture the third and final shot.







5. The camera will automatically stitch and save into a panorama picture after the 3rd shot.
6. Press the playback button to enter Playback mode and review the panorama result.

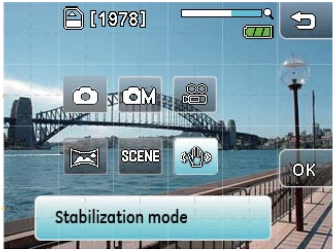
For best results, the use of a tripod is recommended.

After taking the first picture, the following modes will not be accessible: Flash, Self-timer, Macro and Exposure Compensation.

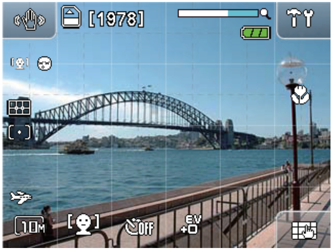
When the panorama mode is active, no picture can be deleted during the three shot sequence, and no focus adjustment is allowed.

Image stabilization mode

The Image Stabilization mode minimizes the effect of hand shake and allows you to take pictures that would otherwise be blurred.



1. Touch the **Image Stablization mode** button in the camera menu and then press OK to enter.
2. Press the shutter halfway to focus on the subject.
3. Press the shutter fully to capture the image.



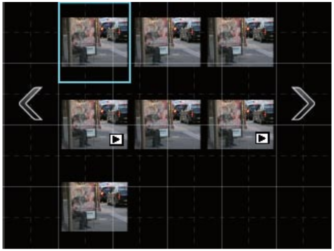
Use Image Stabilization mode in weak light environments or when in a slow shutter mode to get best results.

Taking pictures in a strong vibration environment (like shooting in a moving car) may generate a poor picture performance.

Thumbnail view

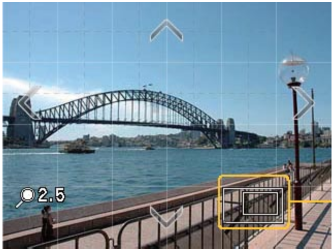
In **Playback mode**, push the (▦ W) on the zoom wheel once to display thumbnails of pictures and video clips on the LCD screen.

1. Use the zoom scroll wheel to switch between the **2x2** or **3x3** thumbnail display.
2. Touch the thumbnail image on the screen to view it in full size.



When the selected picture is displayed in full size during **Playback Mode**, push the zoom scroll wheel (▦ W) toward the right to zoom in on the image.

1. Once you have zoomed in, simply touch the **up**, **down**, **left** and **right** arrow key buttons on screen to change the display position of the zoomed-in image.
2. When the image is zoomed in/out, the screen shows the zoomed ratio and the relative proportion to the whole image. See the following demonstration:



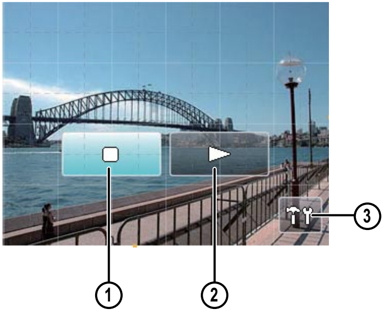
3. Hold the zoom scroll wheel (▦ W) toward the left to keep zooming out until the size of the image is back to full screen size.

Movie clips cannot be zoomed in.

Slideshow

In **Playback mode**, touch anywhere on the screen to show the Playback main menu. Press the slide play button to start playing a slideshow.

1. When the slide plays, touch anywhere on the screen to show the operational buttons.



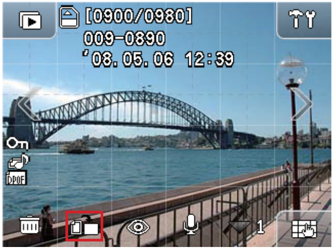
1	Stop	3	Play Setup
2	Resume		

Refer to page 57 for Playback setup.

Picture Orientation

This function allows you to rotate your pictures.

1. In Playback mode, touch any place on the screen and then the button will appear at the lower right corner of the screen. After this, touch , Picture Rotate button will appear on the screen.



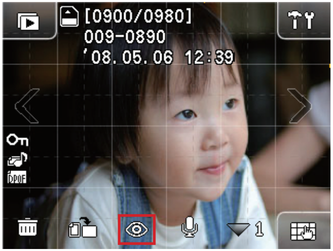
2. Press the left/right arrow key to browse the images. Select the desired picture to rotate.
3. Set the rotation direction by touching the directional key and press the OK button to confirm (or press the return key to cancel and go back to the main menu of Playback mode).

When the rotation is set, the new image will be saved in the selected format, and the original image will be kept in the memory.

Red-eye removal ◎

The camera provides the Red-eye removal function that allows you to easily remove any red-eye effect in the pictures.

1. In Playback mode, touch any place on the screen and then the ⊞ button will appear at the lower right corner of the screen. After this, touch ⊞, Red-eye Removal button ◎ will appear on the screen.



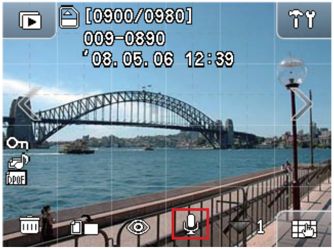
2. Press the left/right arrow key to browse the images. Select the desired image with the red eye and press the OK button to confirm.

When the function is active, the camera will automatically skip the movie clip and play the next image.

Sound recording/playing 🎙

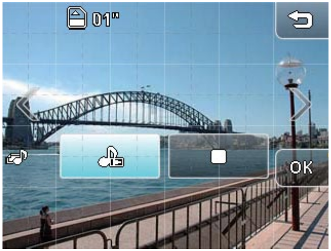
The Sound Recording/Playing function allows you to record or play sound quickly.

1. In Playback mode, touch anywhere on the screen to see the menu buttons. Touch the ⊞, and then touch the sound recording/playing icon 🎙 button along the bottom.



2. Press the left/right arrow key to browse the images. Select the desired image for recording and press the OK button to confirm.
3. The camera will now be in recording mode. It will record audio for 60 seconds and stop automatically, or you can stop it by touching the ☐ button.

4. When the Picture has recorded the sound, touch the button on the screen and enter the **sound play** menu.



5. Press the OK button to confirm (or press the **return** key to cancel and back to the main menu of Playback mode).

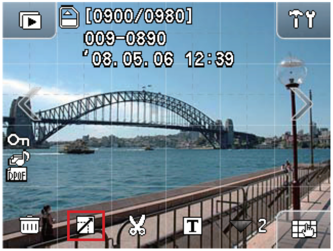
The maximum recording length is 60 seconds.

When the sound is recording or playing, the buttons on the screen are still always active.

Picture resize

This setting allows you to resize the Picture in a specific resolution and save it as a new image.

1. In Playback mode, touch the button at the bottom right of the screen and then page down. The Resize icon will appear on this page.



2. Press the left/right arrow key to browse the images. Select the desired image to resize.
3. Select the desired resize value (**1024×768** or **640×480**) and press the OK button to confirm (or press the **return** key to cancel and return to the playback main menu).

After resizing the image, the new image will be saved as a new file. The original image will be kept in the memory.

When the original picture size is smaller than **640×480**, the picture can not be resized again.

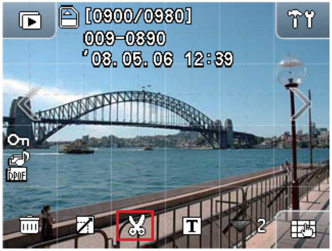
Rotated pictures cannot be resized.

Panoramic pictures cannot be resized.

Picture cropping ✂

The picture crop function allows you to crop a desired portion of the image and save it as a new file.

1. In Playback mode, touch the button at the bottom right of the screen and then page down. The cutting icon ✂ will appear on this page.

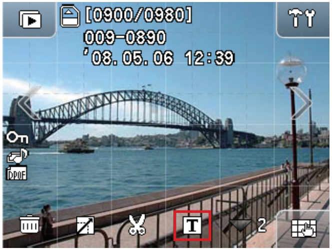


2. Select the desired image and set the cutting region of the image by using zoom scroll wheel and the directional buttons on the screen. Press the OK button to confirm (or press the return key to cancel and return to the playback main menu).

Text display T

The text information of the picture includes the bar chart, the IRIS value, the shutter speed, the image resolution, WB (White Balance) value, and the ISO equivalent.

1. In Playback mode, touch the button at the bottom right of the screen and then page down. The text display icon T will appear on this page.



2. Select **On** and touch the OK button to complete.

When a movie clip is opened in Playback mode, only the first frame of the clip will be shown but the text will not be shown on the screen.

Photograph setting

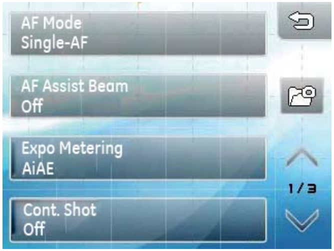
Mode icon:

In the Photograph mode, touch the button on the screen directly to show the **Photograph Configuration**.

In any photograph mode, touch the button to enter set up menu.

Changing settings:

1. Touch the **up/down** arrow keys shown on screen to scroll through setting options.



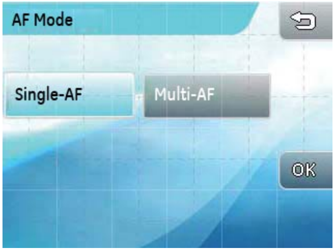
AF Mode
Single-AF

AF Assist Beam
Off

Expo Metering
AiAE

Cont. Shot
Off

2. Touch the desired function to show its sub-menu.

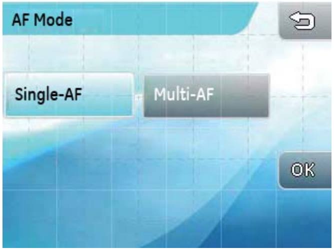


AF Mode

3. Change the desired setting(s) and press the OK button to complete (or press the return key to cancel and return to the playback main menu).

AF mode

Use this setting to control the auto-focus mechanism while taking pictures.

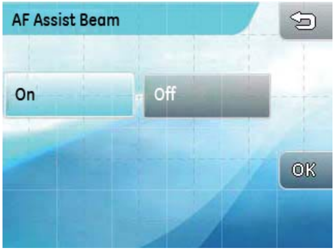


There are two options:

- **Single AF:** A focus frame appears at the center of the LCD screen to focus on the subject.
- **Multi AF:** The camera automatically focuses the subject in a wide area to find the focus point.

AF assist beam

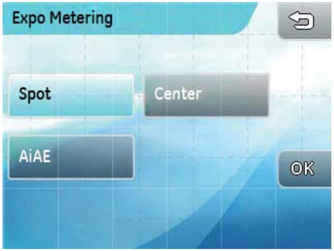
Use this setting to assist focusing in a dark condition. Select On to turn on the AF assist beam, or Off to disable the function.



When the AF-assist beam is turned on, hold the shutter button halfway, and the camera will project the AF beam at the subject for focus assistance.

Expo metering

Use this setting to select an area for the exposure to be obtained.

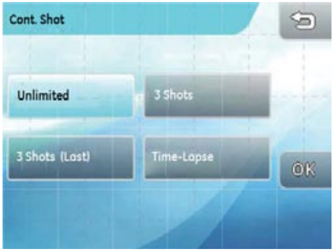

Expo Metering
Spot
Center
AiAE
OK

There are three options:

- **Spot:** Spot metering
- **Center:** Center-weighted average metering
- **Ai AE:** Artificial intelligence automatic exposure **Ai AE**

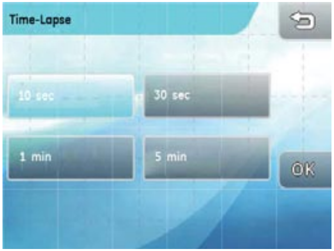
Continuous shot

Use this setting to perform continuous shooting. When this function is active, keep holding down the shutter button for continuous shooting.


Cont. Shot
Unlimited
3 Shots
3 Shots (Last)
Time-Lapse
OK

There are four options:

- **Unlimited**
- **3 Shots:** Capture up to 3 consecutive pictures.
- **3 Shots (Last):** Capture pictures continuously until the shutter button is released but only the last 3 shots are recorded.
- **Time-Lapse:** Time-Lapse automatically captures pictures in predefined intervals.


Time-Lapse
10 sec
30 sec
1 min
5 min
OK

There are four options:

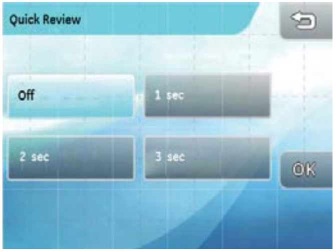
- **10 Sec.**
- **30 Sec.**
- **1 Min.**
- **5 Min.**

When the continuous shot mode is active, the flash will not function in order to allow faster shutter speed.

Refer to page 34 for details on **Continuous Shot** mode.

Quick review

This setting allows you to have a quick review of the image after taking a picture. You can change the length of time the image stays on the screen to a pre-set option.

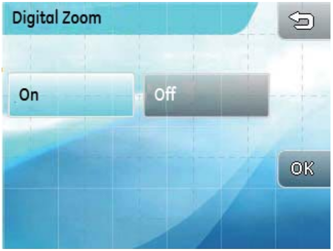

Quick Review
Off
1 sec
2 sec
3 sec
OK

There are four options:

- **Off**
- **1 Sec.**
- **2 Sec.**
- **3 Sec.**

Digital zoom

This setting allows you to turn on/off the digital zoom function. When the digital zoom is turned off, only the optical zoom is available.



When the function is active, the focus bar on the screen will show the following colors.

- **On**: Blue
- **Off**: Grey

Print date

Add the date and time label to the image when shooting.

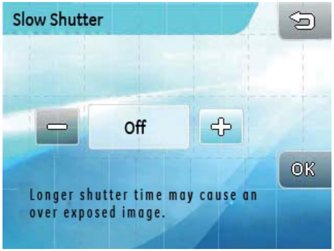
2008-07-17 06:02

- **Off**
- **Print Date**
- **Print Date/Time**

B shutter (slow shutter)

When the Slow Shutter is active, the shutter will stay open for the pre-set exposure time when you keep the shutter button depressed.

(The Slow Shutter is only available under the **Manual mode** M).



Longer shutter time may cause an over exposed image.

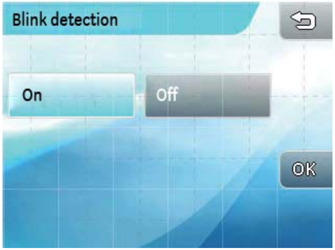
- To set the exposure time: Touch the + − button to adjust the exposure time. Press and hold the button for 2 seconds to automatically increases / decreases the exposure time to the limit between 2 to 30 seconds.

The B Shutter (Slow Shutter) will be turned off when the value is set to zero. You need to reset the value for every shot. The default value of the camera is 0 seconds.

The use of tripod is recommended on a long-term exposure.

Blink detection

When Blink Detection is active, a warning message appears on the screen when the camera detects that a person's eyes are closed.



- **On**: Blue.
- **Off**: Grey.

When the Blink Detection is active, the ☺ icon will be shown on the screen.

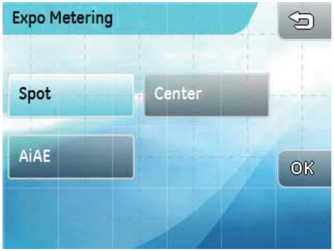
Movie recording setup

Mode icon: 🎥

When the movie recording is active, touch the 🛠 button on the screen to enter the **Video recording** setup.

The Expo Metering Setup:

1. Touch the desired expo metering option directly.



There are three options:

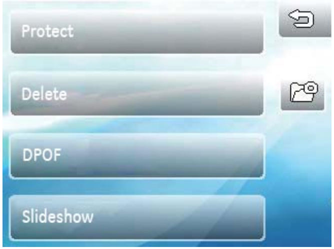
- **Spot:** (Spot metering)
- **Center:** (Center-weighted average metering)
- **Ai AE:** (Artificial intelligence automatic exposure **Ai AE**)

2. Press the OK button to confirm (or press the return key to cancel and return to the playback main menu).

Playback Setup Menu

Mode icon: 🛠

In playback mode, touch the ▶ tool button to reach the playback setup menu.

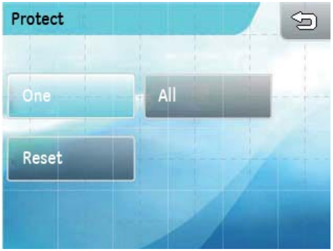


In Playback Mode, there are four options:

- **Protect**
- **Delete**
- **DPOF Settings**
- **Slideshow**

Protect

This setting allows you to protect and lock one or more pictures or movies from being erased.



Protect single picture or movie:

1. In Playback mode, press the 🛠 button.
2. Select Protect. When the sub-menu appears, select **One**.
3. Use the left/right arrow key to view and choose the desired picture or video that you want to protect. Press the 🔑 button, and press the OK button to confirm.

4. You may repeat the steps above to protect other picture(s) or video(s), or you may press the **return** key to go back to the previous page.

Protect all images:

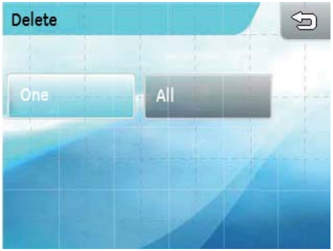
1. In Playback mode, press the button.
2. Select Protect. When the sub-menu appears, select **All**.
3. Choose **OK** to protect all images, or press Cancel to return to the previous menu.
4. Select '**Reset**' to cancel all protection.

A key icon will appear on the left of the screen to indicate that the picture/video is protected.

Delete

The camera provides three deleting options.

Files that are deleted cannot be recovered.



Delete One:

1. In Playback mode, press the button.
2. Select Delete when the sub-menu appears, select **Single**.
3. Use the left/right arrow key to view and choose the desired file. Press the or button, and press the OK button to confirm.

4. Repeat these steps to delete other files, or press the return key to go back to the previous page.
5. When the picture includes a sound recording, you may choose to delete both together or the sound recording only.
    - Delete the picture and the recording sound together
    - Delete the recording sound

Delete All:

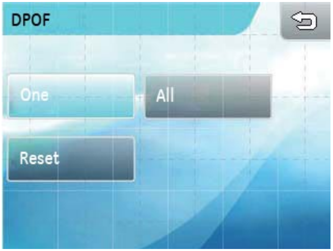
1. In Playback mode, press the button.
2. Select Delete when the sub-menu appears, select **All**.
3. Press OK in the sub-menu, then, press the OK button to delete all files (or press Cancel to go back to the previous menu).
4. The protected file will not be deleted, unless the protection is cancelled.

When the icon 🔑 appears, the file has been protected. Please cancel the protection before deleting the file.

Once the file has been deleted, all configured DPOF values must be reset. (see page 60)

DPOF (Digital Print Order Format)

The DPOF allows you to choose a selection of images to be saved on your memory card so that a picture printing shop can print the selection without your having to tell them which images to print.

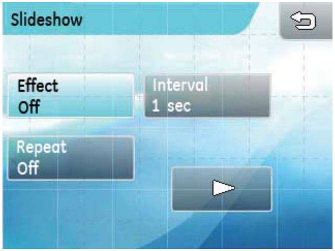


- **One**: Manually select each image to be printed with or without the date.
- **All**: Add all images on your memory card for printing with or without date.

Slide show

This setting allows you to view all pictures as a slideshow in the camera.

1. In playback mode, touch the 🛠 tool button in the upper right corner and then press Slideshow to enter the set up menu.



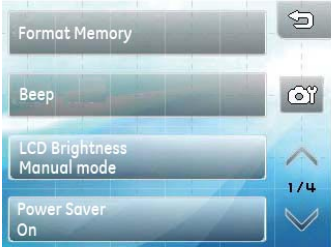
- **Play Effect**: Off, Type 1, Type 2
- **Play Interval**: 1 sec., 3 sec., 5 sec.
- **Repeat**: On/Off

2. After choosing your settings, touch the ▷ button to play the slideshow.

Camera setting menu

Mode icon:

The **camera setting** menu can be opened in all modes. Simply touch the button to show the Setting menu. Touch the **camera setting** button to enter the camera setting menu.



Format Memory

Beep

LCD Brightness
Manual mode

Power Saver
On

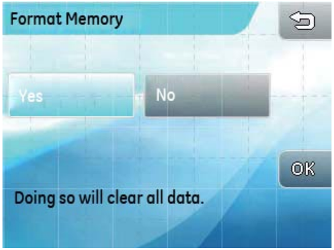
1/4

1. Touch the **up/down** arrows to scroll through the menu pages.
2. Touch the setting you want to set up to enter the sub-menu.

Format memory

⚠ The Format Memory function will erase all data on the memory card and internal camera memory, including protected files.

1. Press Format memory in the camera setting menu.
2. Press Yes and OK button to confirm (or press the return key to cancel and go back to the camera setting menu).


Format Memory
Yes
No
OK

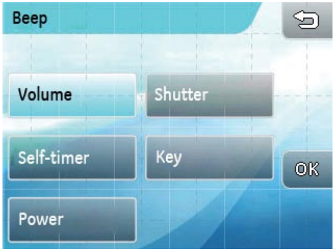
Doing so will clear all data.

3. The current media device is formatted.

Beep

This setting allows you to adjust the volume of beep when buttons are pressed and change the tones for shutter, buttons, self-timer, and power-on/-off.

1. In the **camera setting** menu, select the **Beep** setting.
2. Touch the button to enter the sub-menu of the setting you want to set up.

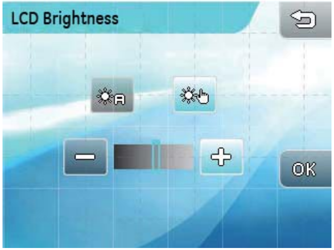

Beep
Volume
Shutter
Self-timer
Key
OK
Power

3. In the sub-menu, press the desired selection and then press OK button to confirm (or press the **return** key to cancel and go back to the **camera setting** menu).

LCD brightness

Use this setting to adjust the brightness of your LCD screen.

1. In the camera setting menu, select LCD Brightness.
2. Touch the Auto or Manual button and then press OK button to confirm.



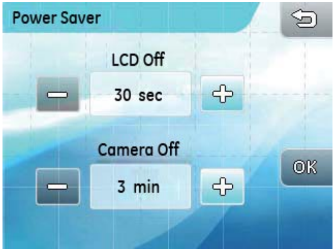
3. By selecting the Manual option, you can adjust the brightness manually as desired by pressing the + − button.

Press and hold the + − button (for 2 seconds) to automatically adjust the level itself until it reaches the brightest or the darkest.

Power saver

This setting allows you to save power and get the maximum possible running time for your battery. Follow the steps below to turn off the LCD screen and camera automatically after a period of idleness.

1. Select **Power saver** in the **camera setting** menu.
2. Press the + − button to adjust the idle period before the **LCD screen** or **the camera** is automatically power-off.



LCD Off
30 sec

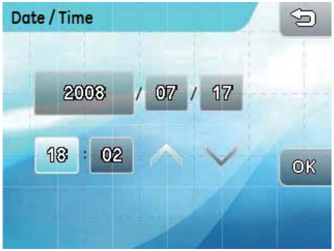
Camera Off
3 min

- **LCD Screen**: Power On/30 sec./1 min./2 min.
- **Camera:** Power On/3 min./5 min./10 min.

Date / Time

Use this setting to change the date and time

1. In the **camera setting** menu, select **Date/Time**.
2. Touch the date or time segment to be adjusted, then touch the **up/down** arrows to change the values.



2008 / 07 / 17

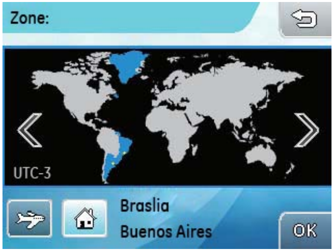
18 : 02

3. Press the OK button to confirm the date and time setting.

Zone

The World Time setting is a useful function on your overseas trips. This feature enables you to display the local time on the LCD screen while you are overseas.

1. In the **camera setting** menu, select **Time zone** to enter the World Time menu.



UTC-3

Braslia

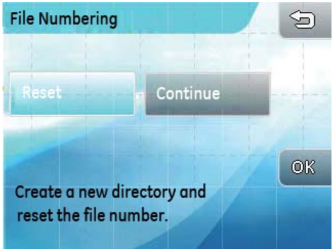
Buenos Aires

2. Press the buttons to set up the **local time zone** (🏠) or **overseas time zone** (✈).
3. Use the **left/right** arrow key to select a city located in the same time zone. Press the OK button to confirm.

File number

After capturing pictures or movies, the camera will automatically save the file with a numeric suffix. This setting allows you to decide whether the numbers should continue from the last photo taken or reset the counter to 1 and save the files in a new folder on the memory card.

1. In the **camera setting** menu, select **File numbering** to enter the setting.
2. Select **Reset** or **Continue**. Press the OK button to confirm.

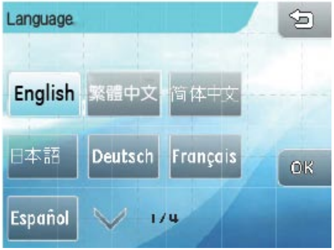

File Numbering
Reset
Continue
OK

Create a new directory and reset the file number.

Language

This setting allows you to set the language of the camera.

1. In the **camera setting** menu, select **Language**.
2. Press the **up/down** arrow key to choose your language.

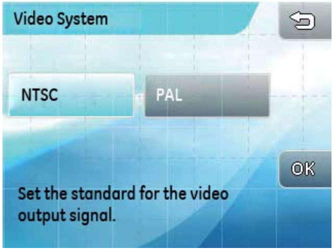

Language
English
繁體中文
简体中文
日本語
Deutsch
Français
Español
1/4
OK

3. Press the language button and then OK button to confirm.

Video system

Use this setting to determine your video system in the current area.

1. In the Camera Setting menu, Select the **Video system**.
2. Select **NTSC** or **PAL**, and press the OK button to confirm.



Set the standard for the video output signal.

The camera supports two different video output signals – **NTSC** or **PAL**, depending on the region.

NTSC: USA, Canada, Taiwan, Japan, etc.

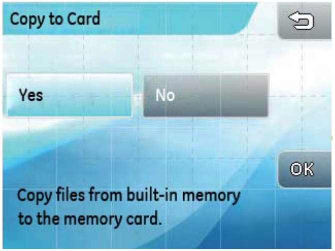
PAL: Europe, Asia (excluding Taiwan), Oceania, etc.

⚠ The TV output will not display properly if an incorrect video system is selected.

Copy to card

Use this setting to copy the files stored in the internal memory to the memory card.

1. In the **camera setting** menu, select **Yes**.
2. Select **Yes** or **No**, and press the OK button to complete.

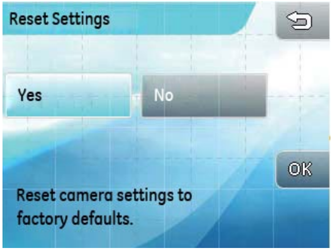


Copy files from built-in memory to the memory card.

Reset settings

Use this option to restore the camera to the factory default settings.

1. In the **camera setting** menu, select **Reset**.
2. Select **Yes** or **No**. Press the OK button to confirm.

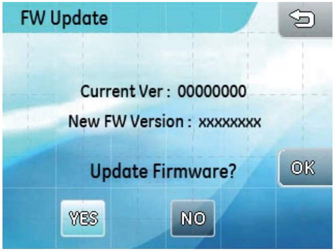


Reset camera settings to factory defaults.

FW version

Use this setting to view or update the current firmware version of the camera.

1. In the Camera Setting menu, select the **FW version**.



Current Ver : 00000000
New FW Version : xxxxxxxx
Update Firmware?

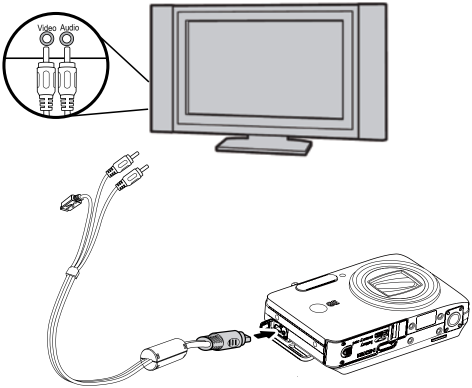
2. When no new firmware version is found in the SD card, the screen shows the current camera firmware version of the camera.
3. When a new firmware version is found in the SD card, select **Yes** to continue the update (or **No** to cancel). Press the OK button to confirm.

Connecting to a TV

You can connect your camera to your television, computer, or printer to view the picture(s) or video(s) you have taken.

By using the AV Cable, you can view the captured picture(s) and video(s) on a TV. Follow the steps below to connect the supplied AV cable to a TV:

1. Choose **[NTSC]** or **[PAL]** to match your TV video standard (see page 66) and then turn off the camera.
2. Connect one end of the AV Cable to the USB/AV OUT port on your camera.
3. Connect the plugs on the other end of the cable to the audio and video input ports on the TV.
4. Turn on the camera and the TV.



Make sure that both the camera and TV are turned off before connecting the AV cable.

Use a fully charged battery to prevent the camera from turning off unexpectedly while connected.

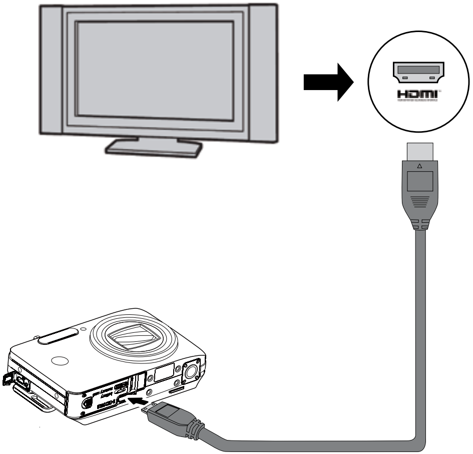
Connect Your Camera to a HDMI TV to View Videos

HDMI (High Definition Multimedia Interface), is a fully digital audio/video transmission interface, through which uncompressed audio and video signals are transmitted.

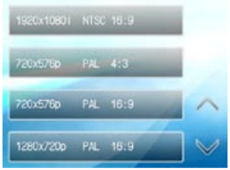
Direct transmission of digital video signals to your TV reduces conversion loss and improves image viewing quality.

Note that your camera and TV should be turned off before connecting them.

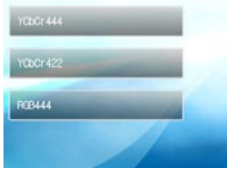
1. Select [NTSC] or [PAL] based on the TV video format (see page 66) and turn off your camera.
2. Use a high-definition output terminal cable (optional) to connect your camera to an HDMI ready TV.



3. Turn on the camera and TV and then select the appropriate screen values from the output formats of your camera. The viewing experience may vary depending on the output values you choose.


1920x1080i NTSC 16:9
720x576p PAL 4:3
720x576p PAL 16:9
1280x720p PAL 16:9

Select resolution


YCbCr 444
YCbCr 422
RGB444

Select screen color format

4. Once an output format is selected, the LCD screen on the camera will go blank (although it is still on) and your TV will then display the images and menus.

When the resolution is set to 1920 x 1080i, you can playback pictures only, and video playback is not possible. The maximum TV resolution for video playback is 1280 x 720P.

Refer to your TV instruction manual for information on what resolution sizes it will support. The resolution and output formats that are not supported will be grayed out on the camera's LCD screen.

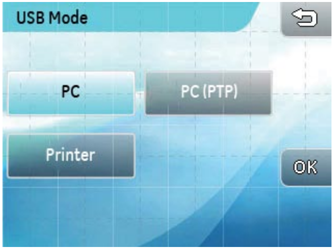
Connecting to the PC

Use the USB Cable and ArcSoft software (CD-ROM) supplied with your camera to copy (transfer) pictures to a computer.

Setting the USB mode

Since the camera's USB port can be set to connect with either a PC or a Printer, the following steps will allow you to ensure that the camera is correctly configured to connect with a PC.

1. In the **camera setting** menu, select **USB Connection**.
2. Select the desired connection. Press the OK button to confirm.

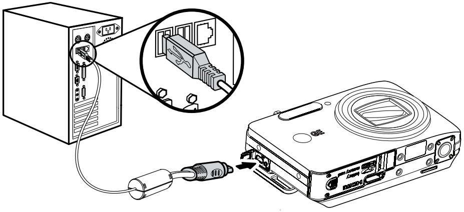


Transferring files to your PC

The computer will automatically detect the camera as a removable drive. Double-click **My Computer** icon on the desktop to locate the removable drive and to copy the folders and files in the drive to a directory on your PC as you would copy any typical folder or file.

By using the USB Cable, you can transfer the captured picture(s) and video(s) to a PC. Follow the steps below to connect the camera to a PC.

1. Start up a computer to which the ArcSoft software has been installed.
2. Make sure both the camera and PC are turned on.
3. Connect one end of the supplied USB cable to the USB/AV OUT port on your camera.
4. Connect the other end of the cable to an available USB port on your PC.



5. Disconnect the cable after the transfer is complete.

If the USB option is set to [PC] :

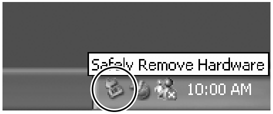
Turn off the camera and disconnect the USB Cable.

If the USB option is set to [PC (PTP)] :

Remove the camera from the system as described below before turning off the camera and disconnecting the USB cable.

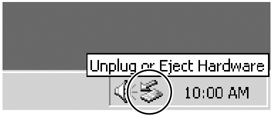
Window XP Home Edition/XP Professional

Click the [Safely Remove Hardware] icon ( ) in the taskbar and select [Safely remove USB Mass Storage Device] from the menu displayed.



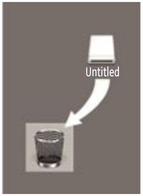
Windows 2000 Professional

Click the [Unplug or Eject Hardware] icon ( ) in the taskbar and select [Stop USB Mass Storage Device] from the menu displayed.


Unplug or Eject Hardware
10:00 AM

Macintosh

Drag the untitled icon to the Trash. ("Untitled")



Connecting to a PictBridge compatible printer

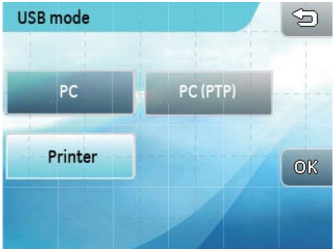
PictBridge allows printing images from a memory card in a digital camera directly to a printer, regardless of brand.

To find out if a printer is PictBridge compatible, simply look for the PictBridge logo on the packaging or check the manual for specifications. With the PictBridge function on your camera, you can print the captured pictures directly with a PictBridge compatible printer using the supplied USB Cable, without the need for a PC.

Setting the USB mode

Since the camera's USB port can be set to connect with either a PC or a Printer, the following steps will allow you to ensure that the camera is correctly configured to connect with a printer.

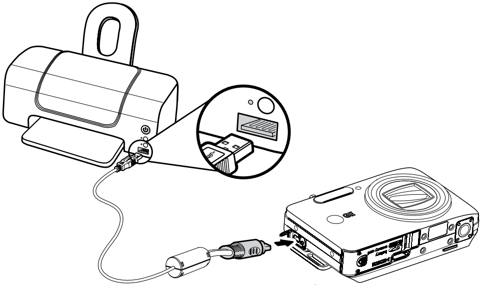
1. In the **camera setting** menu, select **USB Connection**.
2. Select **Printer**. Press the OK button to confirm.



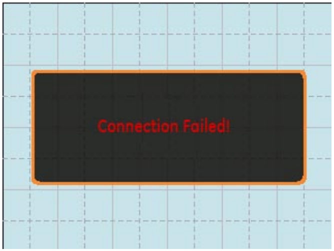
When the camera restarts, the USB mode will automatically switch to the PC connection mode.

Connecting the camera and printer.

1. Make sure both the camera and printer are turned on.
2. Connect one end of the supplied USB Cable to the USB port on your camera.
3. Connect the other end of the cable to the USB port on the printer.



If the camera is not connected to a PictBridge compatible printer, the following error message will appear on the LCD screen.

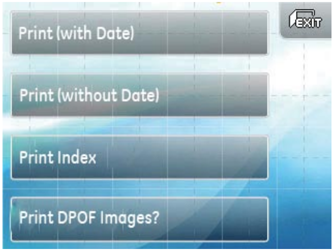


Connection Failed!

The above error message would also appear if the USB mode were set incorrectly, in which case you should disconnect the USB cable, check the USB mode settings, ensure that the printer is turned on, and then try connecting the USB Cable again.

Using the PictBridge menu

After setting the USB mode to printer, the **DPS** menu will appear.


EXIT
Print (with Date)
Print (without Date)
Print Index
Print DPOF Images?

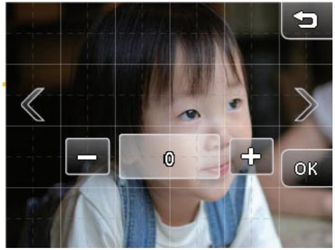
Select and press a setting button to enter the sub-menu.

Refer to the following sections for details of all the settings.

With/Without the picture date printed

When you have set the date and time in the camera, all pictures you have taken will be saved with the date and time. See the following steps to print out the pictures with date/time.

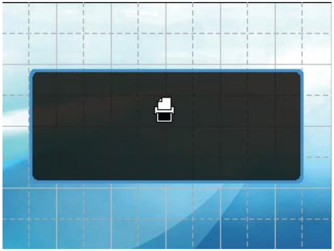
1. In the **DPS** menu, select **With date/time printed** or **Without date/time printed**. The screen below will be shown:



2. Touch the **left/right** arrow to browse the pictures.

3. Use the + − button to select the print quantity of the selected image.

4. Press the OK button to confirm when all images have been set. The screen below will be shown when confirmed:

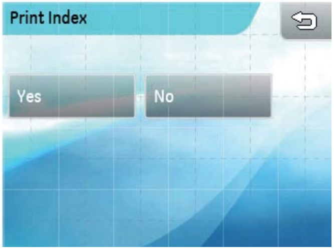


5. When the printing is complete, the camera will show the **DPS** menu automatically.

Print all index

This function allows you to print all images in the camera in a thumbnail index.

1. In the **DPS** menu, select **Print all index items**. The screen will show as below.

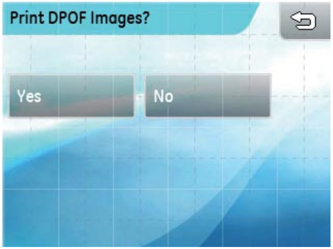


2. Select **Yes** to continue (or **No** to cancel).

Print the DPOF image

To print **DPOF** images, you need to select the images for the DPOF setting in advance. Refer to **DPOF** section on page 60.

1. In the **DPS** menu, select **DPOF** Images to print. The following screen will be shown:

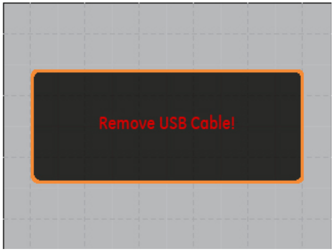


Print DPOF Images?

2. Select **Yes** to continue (or **No** to cancel).

Disconnect the USB cable

Select the **USB Disconnecting** icon EXIT at the upper right corner of the screen to exit the **DPS** menu. The screen shows the 'Disconnect the USB cable' message.



Remove USB Cable!

Once this message is shown on screen it is safe to disconnect the USB cable from the camera and the printer.

Specifications : E1050TW

"Design and specifications are subject to change without notice."

Effective Image Sensor Pixels		10.1 Megapixels
Image Sensor		10.7 Megapixels [1/2.33" Charge Coupled Device (CCD)]
Lens	Focal Length F =	5.1mm (Wide) ~ 25.5mm (Tele)
	[35mm film equivalent]	[28mm (Wide) ~ 140mm (Tele)]
	F number	F3.3 (Wide) ~ F5.1 (Tele)
	Lens Construction	9 elements in 8 groups
	Optical Zoom	5X
	Focusing Range	Normal: 60cm ~∞ ; (Tele) 80cm ~ ∞ Macro: (Wide) 5cm ~ 60cm
Anti-Handshake		Electronic Image Stabilization
Digital Zoom		4.5X digital zoom (Combined Zoom: 22.5X)
Number of Recording Pixels	Still Image	10MP, 9MP (3:2), 8MP, 7MP(16:9), 5MP, 3MP, 0.3MP
	Movie	1280x720pixels: 25fps/15fps, 640x480pixels: 30fps/15fps, 320x240pixels: 30fps/15fps

Image Compression		Best, Fine, Normal
DCF, DPOF (Ver1.1) Support		Yes
File Format	Still Image	Exif 2.2 (JPEG)
	Movie	Image Compression: MPEG4, Audio: G.711 [Monaural]
	Audio	WAVE [Monaural] (Max 60 seconds)
Shooting Modes		Auto, Manual, Image Stabilization, Movie, Panorama, Scene (Sport, Children, Indoor, Leaf, Snow, Sunset, Fireworks, Glass, Museum, Landscape, Night Landscape, Night Portrait, Portrait)
Smile Detection		Yes
Blink Detection		Yes
Face-Detection		Yes
Red-eye Removal		Yes
Panorama Stitching		Yes
LCD Display		3.0 inch (230,400 pixels) TFT-LCD (Touch Pannal)
ISO Sensitivity		Auto, ISO 80/100/200/400/800/1600

AF Method	Single AF, Multi-AF (TTL 9-point), Face-Detection, AF Assist Light (On/Off)
Light Metering Method	Artificial Intelligence AE (Ai AE), Center-weighted Average, Spot (Fixed to center of frame)
Exposure Control Method	ProgramAE (AE-lock available)
Exposure Compensation	±2 EV in 1/3 steps
Shutter Speed	4 ~ 1/2000 second (Manual 30s)
Continuous Shooting	Approx. 1.8 fps (Large/Fine Mode)
Playback Modes	Single Photo, Index (4/9 thumbnails), Slide Show, Movie (Slow-Motion possible), Zoom (Approx. 2X~8X), Audio, Histogram Display
White Balance Control	Auto (AWB), Daylight, Cloudy, Fluorescent, Fluorescent CWF, Incandescent, Manual
Internal Flash (Shooting Range)	Auto/Red-Eye Reduction/Forced Flash/No Flash/Slow Synchro/Red-Eye Reduction+Slow Synchro
	Gno. 5.3 (ISO 100)
	(Shooting Range) Wide: Approx. 0.3m~3.2m / Tele: Approx. 0.3m~2.1m (ISO 400)

Recording Media	Internal Memory: 26MB
	SD Card/SDHC Card (Up to 4GB support)
Other Features	PictBridge, ExifPrint Support, Multi-language Support (23 languages), HD Still Output
Jacks	USB2.0/AV-OUT (Integrated Proprietary Connector), HD OUT
Power	Rechargeable Lithium-ion Battery GB-40, 3.7V 1050mAh
Battery Charger	Input Voltage : AC 100 to 240V, 50/60Hz, 100mA Output Voltage : DC 4.2V, 500mA"
Shooting Capability (Battery Performance)	Approx. 200 shots (based on CIPA Standards)
Operation Environment	Temperature: 0~40^{0}C, Humidity: 0~90%
Dimensions (W x H x D)	93mm x 58mm x 23.8 mm
Mass	Approx. 145g (Body only)

Error messages

Messages	Explanation
No card	• The memory card is not inserted.
Card error	• The memory card is not formatted.
Card full	• The memory card is full and cannot store any new images.
Write protect	• The memory card is write-protected.
Picture error	• The picture is not captured correctly. • The picture is damaged.
No picture	• There are no images in the memory card or in the internal memory.
Lens error	• The lens is probably stuck and the camera will power off automatically.
System error	• Unexpected error encountered.
No sound file	• There are no audio files in the memory card or in the internal memory.
Image cannot be saved	• The write protection switch in the memory card is set to the “LOCK” position.

Messages	Explanation
Card is not formatted, format?	• Confirm whether the memory card should be formatted.
This image cannot be deleted	• The picture or video you are trying to delete is protected.
Cannot record movie	• The write protection switch in the memory card is set to the "LOCK" position.
Sound file cannot be saved	• The write protection switch in the memory card is set to the "LOCK" position.
Warning! Camera recording, please wait.	• No other actions allowed to perform during video/audio recording.
Warning!! Battery exhausted.	• The battery is out of charge.
This file cannot be played back	• The picture format cannot be recognized by the camera.
No connection	• The camera is not connected to the printer correctly.
Print error	• There is a problem with camera or printer.
Cannot print	• Check that the printer is out of paper or out of ink. • Check if the printer has a paper jam.

Troubleshooting

Problem	Possible causes	Solution
Camera does not turn on.	• The battery has run out. • The battery is not inserted correctly.	• Charge the battery or replace with a fully charged battery. • Re-insert the battery observing the correct polarity.
Camera turns off suddenly during operation.	• The battery has run out.	• Charge the battery or replace with a fully charged battery.
The picture is blurred.	• The lens is dirty. • [✋] appears when taking pictures.	• Use a soft cloth to clean the lens on your camera • Use the **Image Stabilization** mode.
Images, video clips, and audio files cannot be saved.	• The memory card is full.	• Replace the memory card with a new one. • Delete unwanted images. • Unlock the memory card.

Problem	Possible causes	Solution
No picture is taken when pressing the shutter button.	• The memory card is full. • No available space to store the files. • The mode dial is in **Playback** mode.	• Replace the memory card with a new one or clean off current memory card. • Delete unwanted images. • The memory card is locked. • Turn the mode dial to any still shooting mode.
Images cannot print from the connected printer.	• The camera is not connected to the printer correctly. • The printer is not PictBridge compatible. • The printer is out of paper or out of ink. • The paper is jammed.	• Check the connection between the camera and printer. • Use a PictBridge compatible printer. • Load some paper in the printer. • Replace the ink cartridge in the printer. • Remove the jammed paper.

http://www.ge.com/digitalcameras

Printed in China